PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference OPP040038KR	FOR FURTHER ACTION a	see Form PCT/ISA/220 is well as, where applicable, item 5 below.
International application No. PCT/KR 2004/003212	(Earliest) Priority Date (day/month/year) 9 December 2003 (09.12.2003)	International filing date (day/month/year) 8 December 2004 (08.12.2004)
Applicant ELECTRONICS A	AND TELECOMMUNICATIONS R	ESEARCH INSTITUTE
This international search report has been according to Article 18. A copy is being	n prepared by this International Searching Au transmitted to the International Bureau.	thority and is transmitted to the applicant
This international search report consists	of a total of 4 sheets.	
☐ It is also accompanied by	a copy of each prior art document cited in th	is report.
language in which it was filed, u	international search was carried out on the bankers otherwise indicated under this item.	
	al search was carried out on the basis of a tran y (Rule 23.1(b)).	aslation of the international application furnished
b. With regard to any nucleoti	ide and/or amino acid sequence disclosed in	n the international application, see continuation of this first sheet.
2. Certain claims were fou	and unsearchable (see continuation of this fi	rst sheet)
	king (see continuation of this first sheet)	·
4. With regard to the title,		
the text is approved as su		
the text has been established	hed by this Authority to read as follows:	
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5. With regard to the abstract,	1 to 11 d Warms	
	ubmitted by the applicant.	ority as it appears in the continuation of this first
sheet. The applicant ma comments to this Author	y, within one month from the date of mailing	ority as it appears in the continuation of this first of this international search report, submit
6. With regard to the drawings,		
a. the figure of the drawin	gs to be published with the abstract is Figure	No4_
as suggested by the app		
	ority, because the applicant failed to suggest	a figure.
•	ority, because this figure better characterizes	
	e published with the abstract.	

Form PCT/ISA/210 (first sheet) (January 2004)

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International application No. PCT/KR 2004/003212

Continuation of first sheet

Continuation No. IV:

Text of the abstract

(Continuation of item 5 of the first sheet)

Disclosed are a method for requesting, generating and distributing a service-specific traffic encryption key in a wireless portable Internet system, an apparatus for the same, and a protocol configuration method for the same. In the present invention, a subscriber station (10) send a Key Request message for requesting a service-specific traffic encryption key to the base station (20,21) using a PKM-REQ MAC message, and a base station (20,21) analyzes the Key Request message to generate the requested service-specific traffic encryption key. Subsequently, the base station (20,21) send a Key Reply message, including the generated service-specific traffic encryption key, to the subscriber station (10) using a PKM-RSP MAC message. If the base station (20,21) fails to generate the key, the base station (20,21) sends a Key Reject message, including a reason for the failure, to the subscriber station (10).

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IP	C ⁷ ⋅ H04N	CATION OF SUBJECT MATTER 7/16, H04N 7/173, H04Q 7/22, H04Q 7/3 ternational Patent Classification (IPC) or to both national	8, H04L 29/06 al classification and IPC			
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IP	C ⁷ : H04C	mentation searched (classification system followed by cl 2, H04L, H04N				
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPI, EPODOC, Elsevier, IEE, I3E, IEEEXplore, Research Disclosure, INSPEC						
С	. DOCUM	ENTS CONSIDERED TO BE RELEVANT				
C	ategory*	Citation of document, with indication, where appro	opriate, of the relevant passages	Relevant to claim No.		
	Y	IEEE Standard 802.16-2001 for		1-22		
	,	Local and metropolitan area networks	•			
		Part 16: Air Interface for Fixed				
		Broadband Wireless Access Systems. 8	3 April 2002			
		Pages: 170-192				
		_				
	Y	US 2003/0078061 A1 (KIM) 24 April 2 figures, abstract, paragraphs 47, 49-51	003 (24.04.2003)	1-22		
t	☐ Furthe	r documents are listed in the continuation of Box C.	See patent family annex.	CV- Attack		
	* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" artler application or patent but published on or after the international filing date "T" later document published after the international filing date into understand the principle or theory underlying the document of particular relevance; the claimed cannot be considered novel or cannot be considered on the principle of the principle or theory underlying the cannot be considered filing date.					
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	means		documents, and combination	1		
	· .	e actual completion of the international search 15 July 2005 (15.07.2005)	Date of mailing of the international 29 July 2005 (29	search report 9.07.2005)		
		mailing address of the ISA/ AT Austrian Patent Office resdner Straße 87, A-1200 Vienna	-Authorized officer	ASIO J.		
		resoner Straise 87, A-1200 Vietna No. +43 / 1 / 534 24 / 535	Telephone No. +43 / 1 / 534 24	4 / 327		

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Information on patent family members

International application No. PCT/KR 2004/003212

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US A 20030078 061		none none	
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